

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058956 A1

- (51) International Patent Classification⁷: **C07K 14/715**, C12N 15/12 (74) Agent: **F B RICE & CO**; 139-141 Landsdowne Street, Carlton, VIC 3053 (AU).
- (21) International Application Number: PCT/AU2004/001762 (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 16 December 2004 (16.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 2003906979 16 December 2003 (16.12.2003) AU (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION** [AU/AU]; Limestone Avenue, Campbell, Australian Capital Territory 2601 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **VARGHESE, Joseph, Noozhumutry** [AU/AU]; 179 Nicholson Street, BRUNSWICK EAST, VIC 3057 (AU). **HUDSON, Peter, John** [AU/AU]; 36 Fuchsia Street, BLACKBURN, VIC 3130 (AU). **POWERS, Barbara, Elaine** [AU/AU]; 36 Fuchsia Street, Blackburn, VIC 3130 (AU).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: CYTOKINE BINDING DOMAINS

(57) Abstract: The present invention relates a method of generating modified binding moieties comprising a cytokine binding domain consisting of a first FnIII-like domain and a second FnIII-like domain in which at least one amino acid residue within the cytokine binding domain is modified such that the binding characteristics of the cytokine binding domain are altered, and/or, the solubility and/or stability of the binding moiety is improved. The invention also relates to binding moieties and to the use of such binding moieties as affinity reagents, diagnostic reagents, therapeutic agents and protein scaffolds.



WO 2005/058956 A1